

Release B CDR RID Report

Date Last Modified 12/20/96

Originator Barkstrom

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Organization

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Document

RID ID CDR 51

Review Release B CDR

Originator Ref

Priority 2

Section

Page

Figure Table

Category Name System Modeling/Sizing

Actionee Project (Jamison) & ECS

Sub Category

Subject

Description of Problem or Suggestion:

Need an appropriate tool for modelling long-term capacity for the system

Originator's Recommendation

Explore ways to adapt model to capacity management with inputs from actual performance (i.e., use model as part of control system for EOSDIS as a whole).

GSFC Response by: Don Jamison

GSFC Response Date 6/17/96

The ESDIS PMO is developing an EOSDIS End-to-End model for performance analysis and capacity management. The data generated by ECS models and the algorithms that are developed for each of the ECS subsystem models will be evaluated for use in the EOSDIS End-to-End model. As changes are made over time to the ECS models, corresponding changes will be included in the EOSDIS End-to-End model.

HAIS Response by: Hal Brackett

HAIS Schedule

HAIS R. E. M. Armstrong

HAIS Response Date 12/2/96

The RID has two parts, the EOSDIS part and the ECS part, to provide for "EOSDIS as a whole". The ECS part concerns only the DAACs and their interfaces to the EOSDIS part (EBNet, etc). None of the current ECS models is a suitable tool for operational use. The BONEs Dynamic model is large and the running time is about 2 weeks for the level of detail used for sizing, and the End-to-End Analytic Queuing model does not account for product data dependencies, etc.. All models that ECS has developed are deliverable with "working" (no CDRLs) documentation.

ECS (Modeling) has to "explore the ways to adapt model". One or more of the existing models or a new model will be provided to perform the ECS part of capacity planning. This work is part of Modeling work to be done once ECS systems become operational and operational data is available. Currently this is being done as support to Release B hardware procurement with the existing models. Additional models will be developed as required in the normal modeling planning.

Status Closed

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***** Attachment if any *****

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